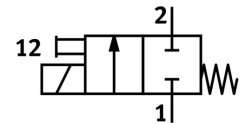


# Air solenoid valve MHA1-M4H-2/2G-0,9-PI

Part number: 197042

FESTO



 [General operating condition](#)

## Data sheet

| Feature                          | Value                                         |
|----------------------------------|-----------------------------------------------|
| Valve function                   | 2/2, closed, monostable                       |
| Actuation type                   | Electrical                                    |
| Width                            | 10 mm                                         |
| Standard nominal flow rate       | 14 l/min                                      |
| Pneumatic working port           | Sub-base                                      |
| Operating voltage                | 5V DC                                         |
| Operating pressure               | -0.09 MPa ... 0.2 MPa                         |
| Operating pressure               | -0.9 bar ... 2 bar                            |
| Operating pressure               | -13.05 psi ... 29 psi                         |
| Structural design                | Poppet valve with return spring               |
| Reset method                     | Mechanical spring                             |
| Degree of protection             | IP40                                          |
| Certification                    | c UL us - Recognized (OL)                     |
| Certificate issuing authority    | UL MH19482                                    |
| Nominal width                    | 0.9 mm                                        |
| Width dimension                  | 10 mm                                         |
| Exhaust air function             | Without flow control option                   |
| Sealing principle                | Soft                                          |
| Mounting position                | Any                                           |
| Manual override                  | Non-detenting                                 |
| Type of control                  | Direct                                        |
| Flow direction                   | Non-reversible                                |
| Symbol                           | 00991398                                      |
| Valve position ID                | Label                                         |
| Lap                              | Underlap                                      |
| Note on forced dynamization      | Switching frequency at least once a week      |
| Suitability for vacuum           | yes                                           |
| Max. switching frequency         | 20 Hz                                         |
| Switching time off               | 5 ms                                          |
| On switching time                | 4 ms                                          |
| Duty cycle                       | 100%                                          |
| Electrical power consumption     | 1 W                                           |
| Coil characteristics             | 5 V DC: 1.0 W                                 |
| Permissible voltage fluctuations | +/- 10 %                                      |
| Operating medium                 | Compressed air as per ISO 8573-1:2010 [7:4:4] |

| <b>Feature</b>                           | <b>Value</b>                                                                         |
|------------------------------------------|--------------------------------------------------------------------------------------|
| Information on operating and pilot media | Operation with oil lubrication possible (required for further use)                   |
| Vibration resistance                     | Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 |
| Shock resistance                         | Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27                |
| Corrosion resistance class (CRC)         | 2 - Moderate corrosion stress                                                        |
| LABS (PWIS) conformity                   | VDMA24364-B2-L                                                                       |
| Storage temperature                      | -20 °C ... 60 °C                                                                     |
| Temperature of medium                    | -5 °C ... 40 °C                                                                      |
| Ambient temperature                      | -5 °C ... 40 °C                                                                      |
| Product weight                           | 10 g                                                                                 |
| Electrical connection                    | Plug                                                                                 |
| Type of mounting                         | On sub-base<br>With through-hole                                                     |
| Pneumatic connection 1                   | Sub-base                                                                             |
| Pneumatic connection 2                   | Sub-base                                                                             |
| Note on materials                        | RoHS-compliant                                                                       |
| Seals material                           | FPM<br>HNBR<br>NBR                                                                   |
| Housing material                         | PA-reinforced<br>PPS-reinforced                                                      |